

FIG. 1

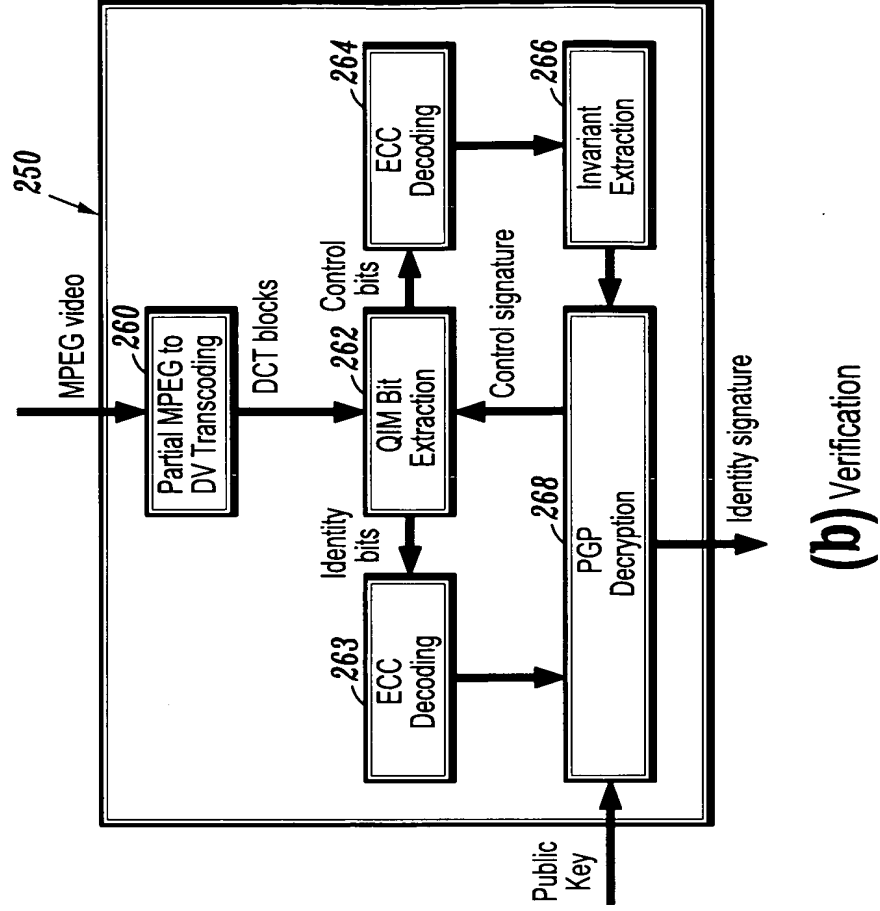
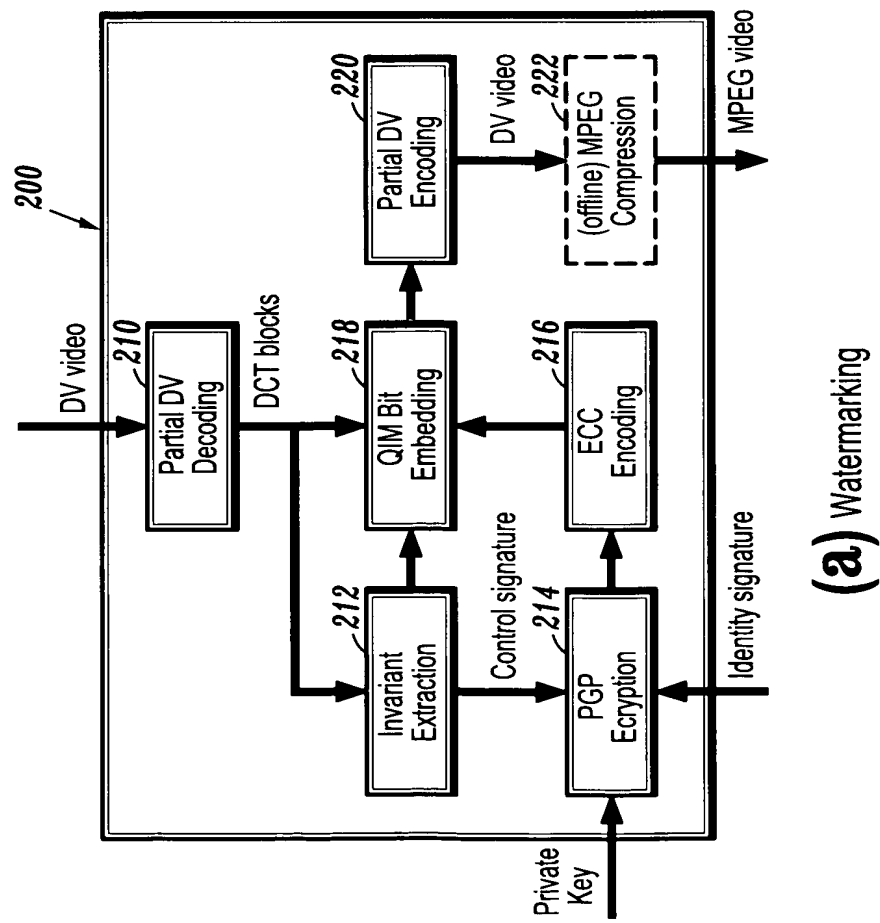


FIG. 2

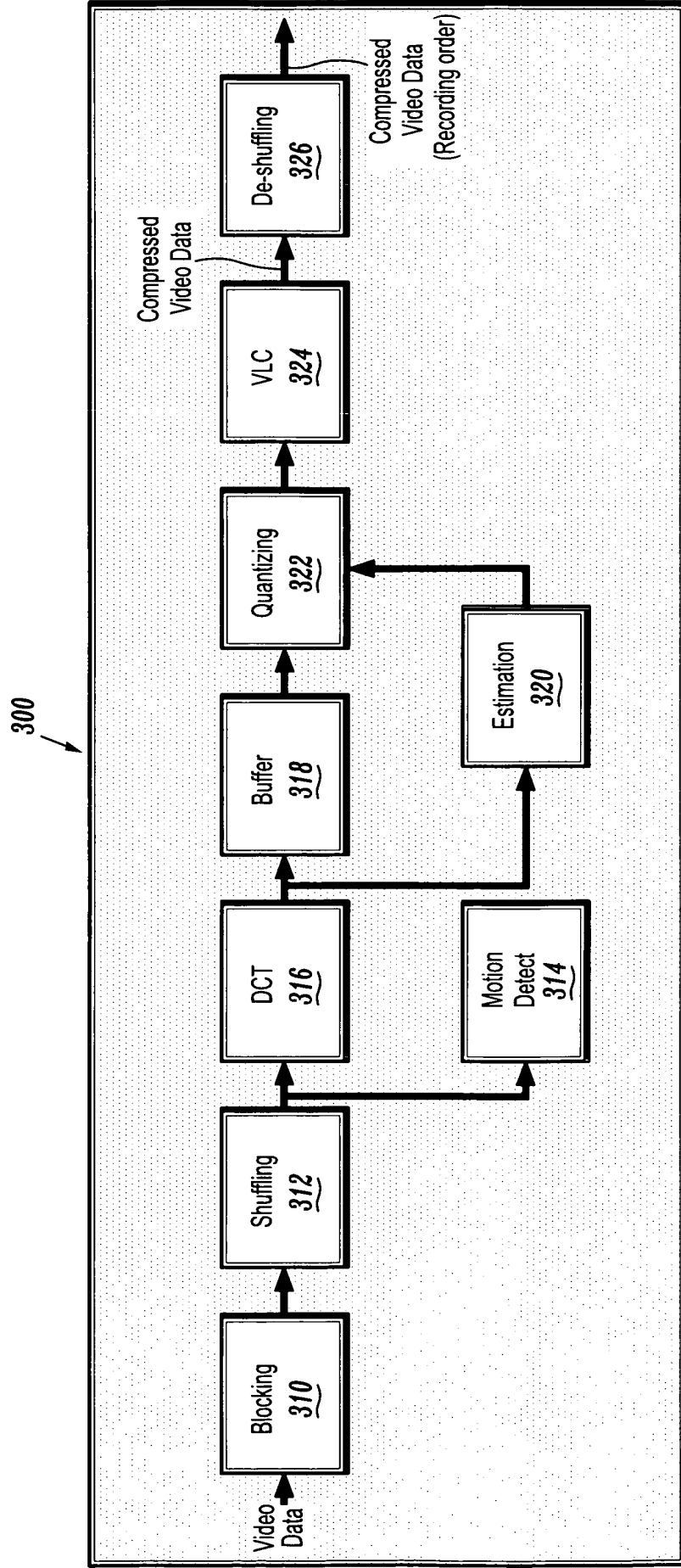


FIG. 3

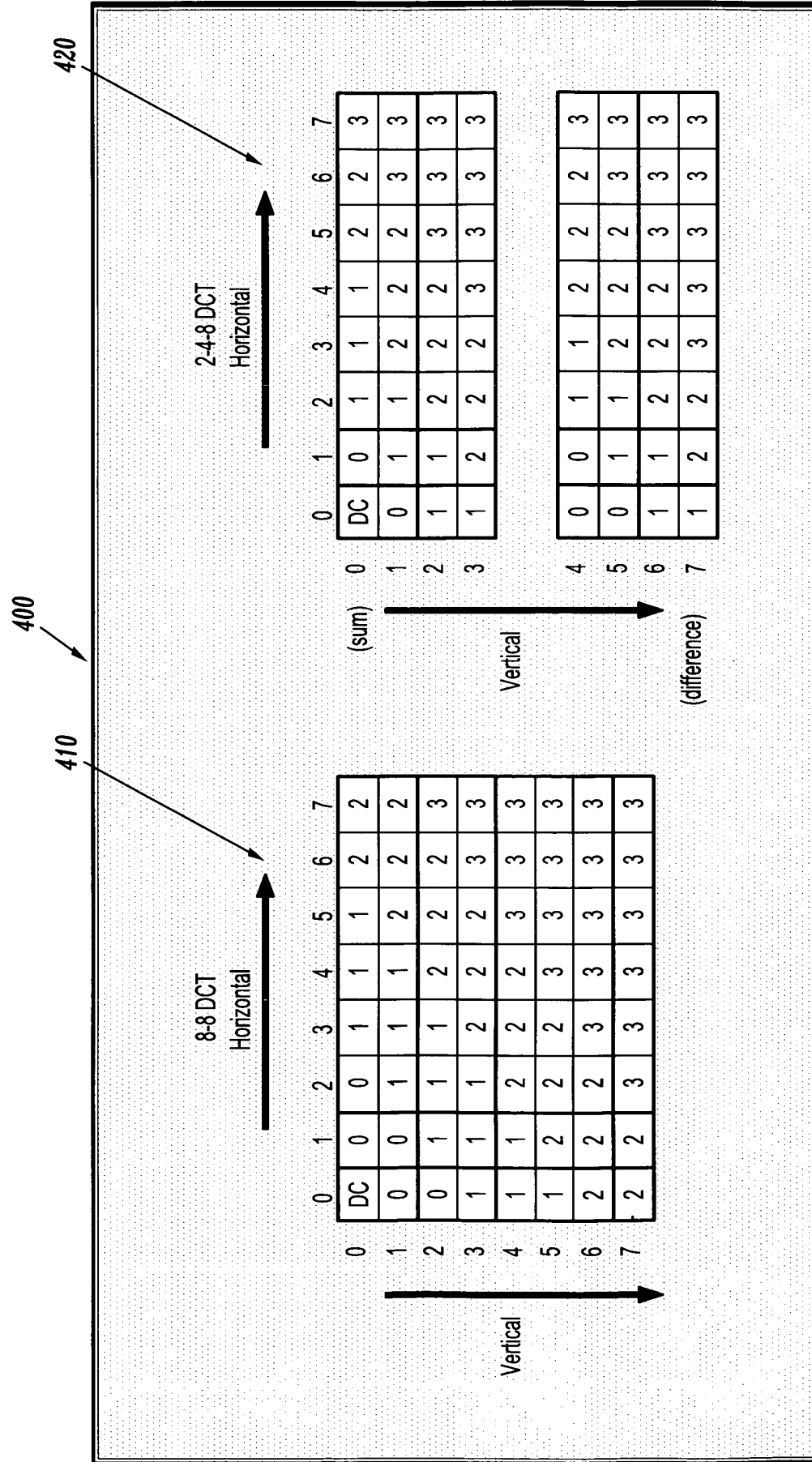


FIG. 4

Quantization number (QNO)	Class number				Area number			
	0	1	2	3	0	1	2	3
	15				1	1	1	1
	14				1	1	1	1
	13				1	1	1	1
	12	15			1	1	1	1
	11	14			1	1	1	1
	10	13		15	1	1	1	1
	9	12	15	14	1	1	1	1
	8	11	14	13	1	1	1	2
	7	10	13	12	1	1	2	2
	6	9	12	11	1	1	2	2
	5	8	11	10	1	2	2	4
	4	7	10	9	1	2	2	4
	3	6	9	8	2	2	4	4
	2	5	8	7	2	2	4	4
	1	4	7	6	2	4	4	8
	0	3	6	5	2	4	4	8
		2	5	4	4	4	8	8
		1	4	3	4	4	8	8
		0	3	2	4	8	8	16
			2	1	4	8	8	16
			1	0	8	8	16	16
			0		8	8	16	16

FIG. 5

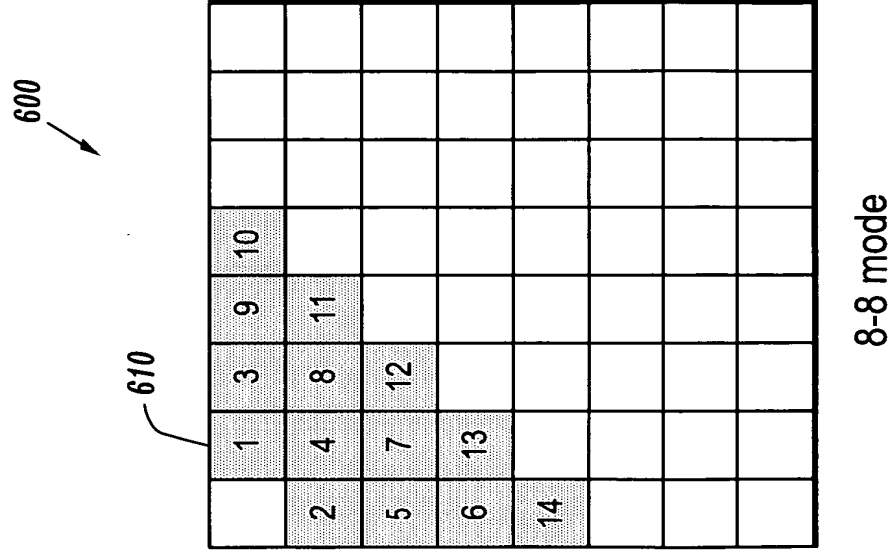
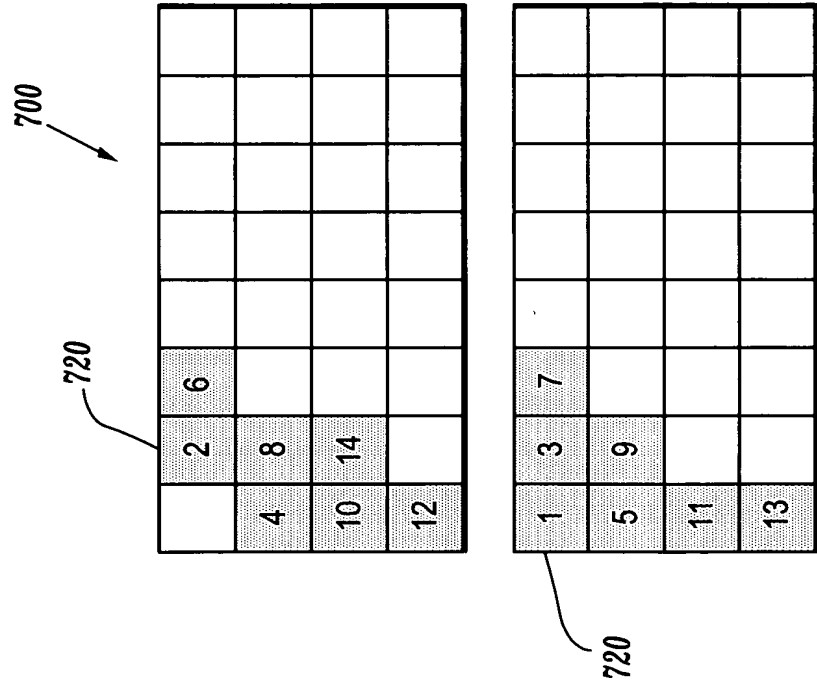


FIG. 6



2-4-8 mode

FIG. 7

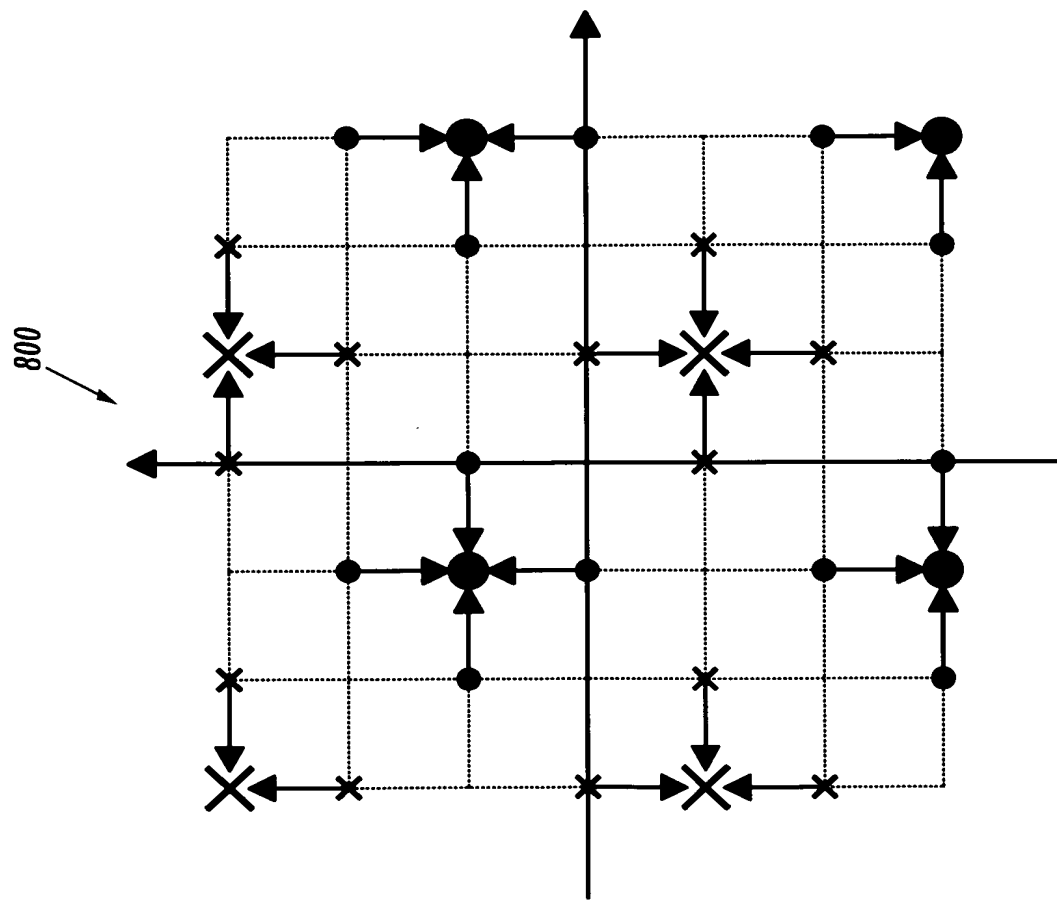
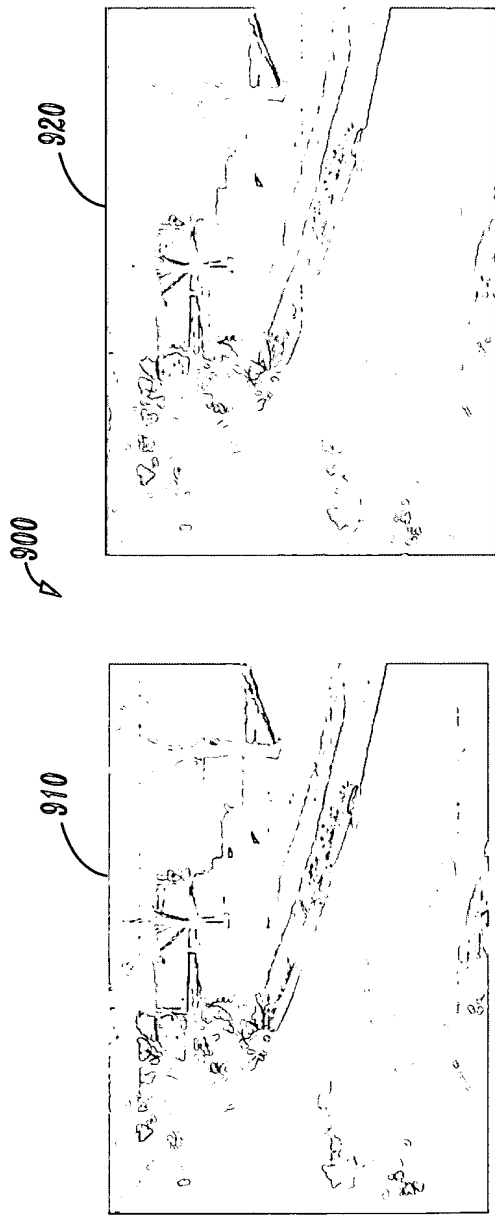
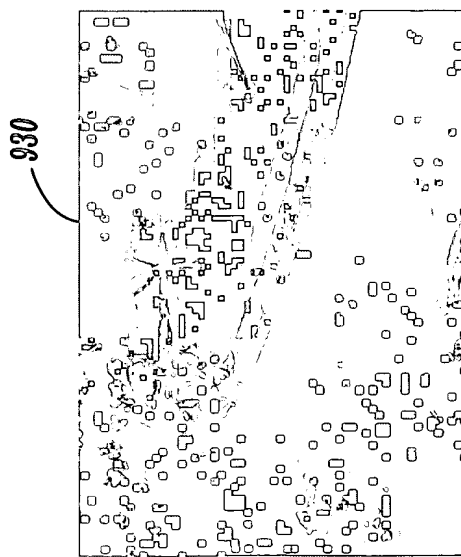


FIG. 8

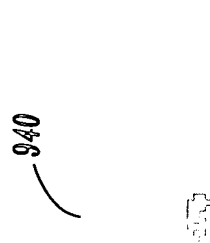


(a) Original frame

(b) Tampered frame



(c) Error blocks reported by ECC



(d) Filtered score map of tampering

FIG. 9

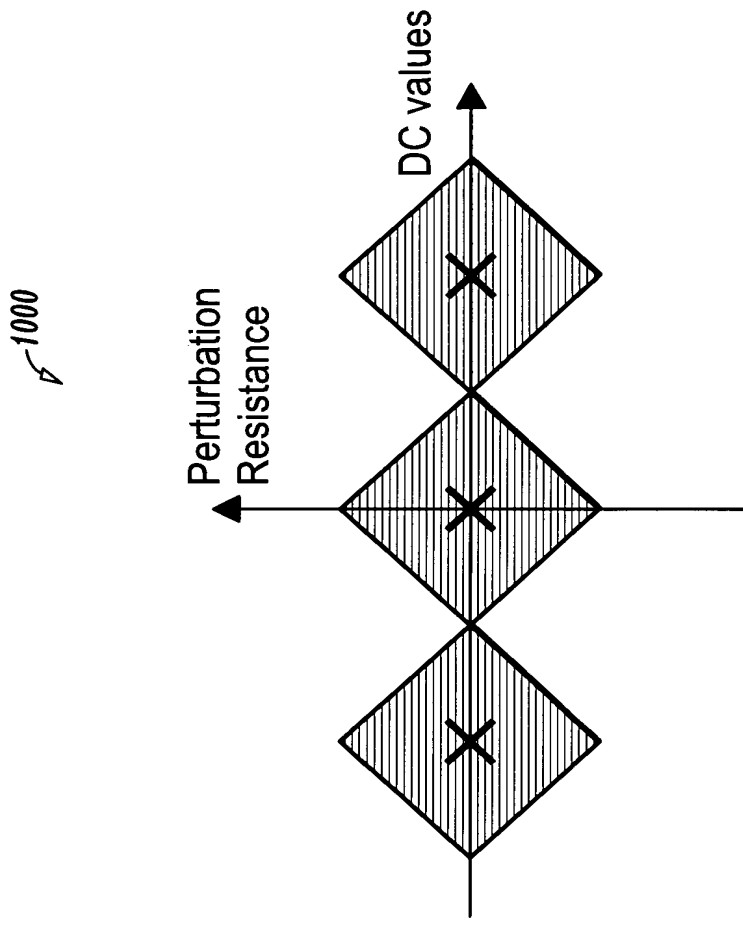


FIG. 10

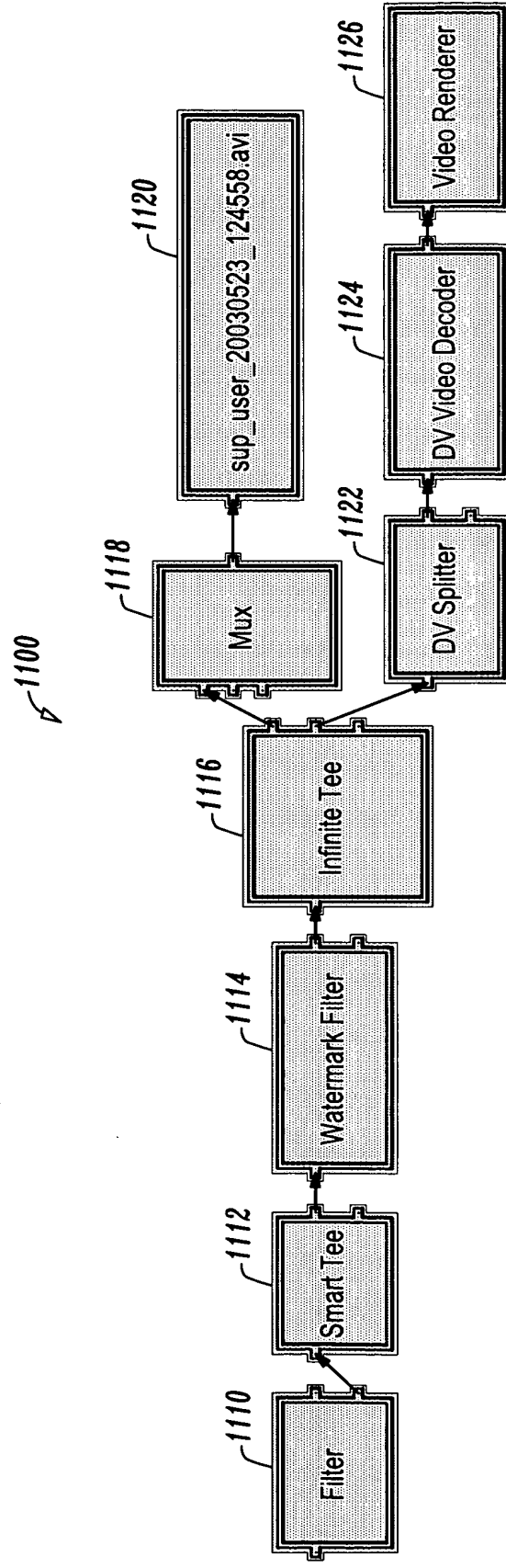


FIG. 11

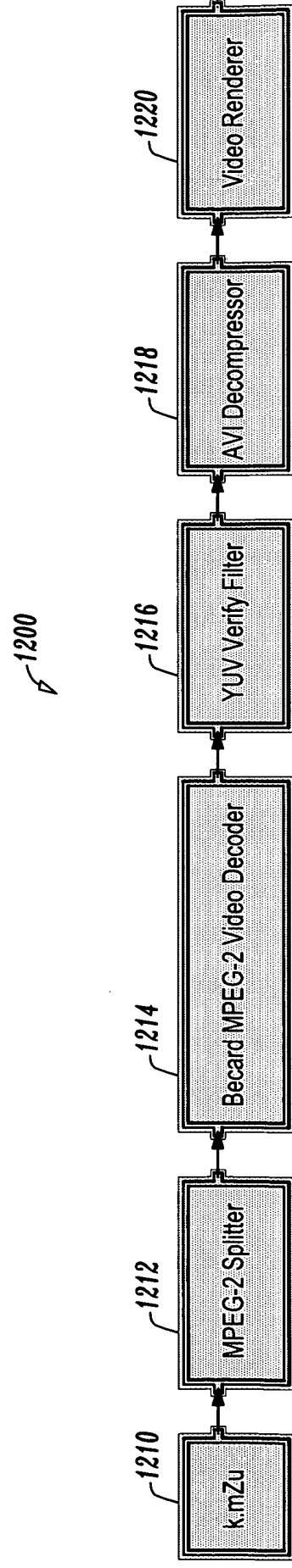


FIG. 12

